DDDDDDDDDDD TTTTTTTTTTTTT SSSSSSSS DDDDDDDD	SSS DDDDDDDD	DDDD DDDD		RRRRR	RRRRRRRR RRRRRRRR RRRRRRRR
DDD DDD TTT SSS	DDD	DDD	III	RRR	RRR
DDD DDD TTT SSS	DDD	DDD	iii	RRR	RRR
DDD DDD TTT SSS	DDD	DDD	TTT	RRR	RRR
DDD DDD III SSS	DDD	DDD	III	RRR	RRR
DDD DDD TTT SSS	DDD	DDD	III	RRR	RRR
DDD DDD III SSSSSSSS	DDD	DDD	III		RRRRRRRR
DDD DDD TTT SSSSSSSS	DDD	DDD	TTT		RRRRRRRR
DDD DDD TTT SSSSSSSS	DDD	DDD	TTT	RRRRR	RRRRRRRR
DDD DDD TTT	SSS DDD	DDD	TTT	RRR	RRR
DDD DDD TTT	SSS DDD	DDD	TTT	RRR	RRR
	SSS DDD	DDD	TTT	RRR	RRR
	SSS DDD	DDD	İİİ	RRR	RRR
	SSS DDD	DDD	İİİ	RRR	RRR
DDD DDD TTT	SSS DDD	DDD	iii	RRR	RRR
DDDDDDDDDDD TTT SSSSSSSSSS	DDDDDDDD		titi	RRR	RRR
DDDDDDDDDDD TTT SSSSSSSSSS	DDDDDDDD		iii	RRR	RRR
DDDDDDDDDDD TTT SSSSSSSSSS	DDDDDDDD		iii	RRR	RRR

Pe

_\$

To Us To

Nu

17 A LI DT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	\$:::
111111111111111111111111111111111111111		\$					

TST\$DTSPAR Table of c	SE ontents	- PARSE DTS COMMAND LINE G 5 16-SEP-1984 01:25:31 VAX/VMS Macro	v04-00
(2) (3) (4) (5) (6) (7) (8)	42 60 188 296 352 549 630 688	DECLARATIONS TST\$PARSE - COMMAND PARSE ROUTINE PARSE ROUTINEPARAMETER EVALUATION AND DEFAULTING PARSE ROUTINEQUALIFIER EVALUATION PARSE ROUTINEQUALIFIER VALUE EVALUATION TST\$NEXTCHAR - EXAMINE NEXT CHARACTER TST\$MATCH - KEYWORD MATCH ROUTINE TST\$CVTU_DTB - CONVERT UNSIGNED DECIMAL TO BINARY	

*

16-SEP-1984 01:25:31 VAX/VMS Macro V04-00 5-SEP-1984 00:22:35 [DTSDTR.SRCJDTSPARSE.MAR;1

1 Page (1)

.TITLE TSTSDTSPARSE - PARSE DTS COMMAND LINE .IDENT 'V04-000'

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

FACILITY: DTS/DTR DECNET TEST PACKAGE

H 5

ABSTRACT: THIS MODULE PARSES A COMMAND LINE INPUT BY DTS.

ENVIRONMENT: DTS/DTR RUN IN USER MODE AND REQUIRE NETWORK PRIVILEGE.

AUTHOR: JAMES A. KRYCKA, CREATION DATE: 11-AUG-77

MODIFICATIONS:

2901233456789 23333333333333333

40

```
J 5
 - PARSE DTS COMMAND LINE
TST$PARSE - COMMAND PARSE ROUTINE
                                                                   16-SEP-1984 01:25:31 VAX/VMS Macro V04-00 EDTSDTR.SRCJDTSPARSE.MAR;1
                                                                                                                                                             (3)
                                        .SBTTL TST$PARSE - COMMAND PARSE ROUTINE .PSECT TST$CODE NOWRT
  0000000
                                                                                           : SYMBOL FOR DEBUGGING PURPOSES
                             FUNCTIONAL DESCRIPTION:
                                       NONE
                              CALLING SEQUENCE:
                                       CALL
                                                    #0,TST$PARSE
                              INPUT PARAMETERS:
                                                    THE ADDRESS OF THE NEXT CHARACTER IN THE BUFFER THE ADDRESS OF THE END OF THE BUFFER + 1
                             IMPLICIT INPUTS:
                                       NONE
                              OUTPUT PARAMETERS:
                                        R0-R9
                                                    DESTROYED
                                                    COMMAND PARAMETER VALUE (TESTTYPE)
UPDATED PARSE FLAGS
                                        R11
                             IMPLICIT OUTPUTS:
                                       TST$GB_BACK
TST$GB_DISPLAY
TST$GB_FLOW
TST$GB_NAK
TST$GB_NAK
TST$GB_RETURN
TST$GB_RETURN
TST$GB_RQUEUE
TST$GB_RQUEUE
TST$GL_SECONDS
TST$GW_SIZE
TST$GL_SPEED
TST$GB_SQUEUE
TST$GB_TEST
TST$GB_TYPE
                              COMPLETION CODES:
                                       NONE
                              SIDE EFFECTS:
                                        NONE
0000
                                        .ENTRY TST$PARSE, M<>
                                                                                           ; ENTRY POINT
```

					MMAND LINE MMAND PARSE ROUTINE	5 16-SEP-1984 5-SEP-1984	01:25:31 YA	X/VMS Macro V04-00 TSDTR.SRCJDTSPARSE.MAR;1	Page
				0002 0002 0002 0002	7 : DETERMINE IF THE 19 : PARAMETER OR QUAL 0 : REACHED.	NEXT SYNTACTICAL IFIER, OR IF THE	ELEMENT OF THE	E COMMAND LINE IS A PUT LINE HAS BEEN	
	0	2F7	30	0002 0002 0005 0005 0005	5 REEXAMINE CHAR:	SNEXTCHAR ECTOR=RO,DISPL=<- END_OF_LINE- QUAL-	: END-OF	ER: -LINE	
				0005 0005 0005 0005 0013	9 1 2 3	PARSE_ERROR- SPACE_OR_TAB PARAM-	: EQUAL	SIGN OR COLON OR TAB OF THE ABOVE	
				0013 0013 0013 0013 0013 0013	S : A SPACE OR TAB HAS CAN NOT IMMEDIATE CAN NOT IMMEDIATE CONTRACTOR TAB:	LY FOLLOW. ANOTHE	D. THIS IMPLI R SFACE OR TA	ES THAT A QUALIFIER (/) B, A PARAMETER, OR A	
	5B	08 EA	88 11	0013 0013 0016 0018 0018	BISB2 #FLO	G_M_DELIMITER,R11 T_ECEMENT			
16	5B	03		0018 0018 0018 0018 0018	5 : A QUALIFIER FOLLOW 6 : 7 8 QUAL:			ANNOT FOLLOW	
		OF D E4		001C 001C 001F 0021	1 RSRU OIIAI	G_V_DELIMITER,R11 SE_ERROR LIFIER KAMINE_CHAR	SPACE PROCESS PROCESS	OR TAB QUALIFIER QUALIFIER DELIMITER	
				0021 0021 0021 0021	BRB. REES				
15	5B 5B	02	E2	0021 0025	9 BBSS #FLO 0 PAR: 1 BICB2 #FLO	G V PARAMETER,R11 SE ERROR G M DELIMITER,R11 AMETER	ERROR I	F NOT FIRST PARAMETER	
	76	08 14 D9	8A 10 11	0028 002A 002C	S BRB REE	KAMINE_CHAR	; PRUCESS	PARAMETER PARAMETER DELIMITER	
				002C 002C 002C 002C	6: THE END OF THE LIG 7: REQUIRES ANOTHER IS 8: REQUIRED PARAMETES 0: THE END OF THE LIG 8: REQUIRED PARAMETES 0: THE END OF THE LIG 0: THE END OF THE END OF THE LIG 0: THE END OF THE END OF THE LIG 0: THE END OF THE END OF THE LIG 0: THE END OF	NE HAS BEEN REACH LINE OF INPUT; OT R HAS BEEN RECEIV	ED. SET FLAG HERWISE, DETE ED.	IF THE COMMAND LINE RMINE WHETHER THE	
	20	51 05	91 13	002C 002C 002F	END_OF_LINE: CMPB R1.	#^A/-/	IS COMM	AND LINE CONTINUED?	

(3)

TSTSDTSPARSE

TSTSDTSPARSE V04-000			- PA	RSE DTS	COMMA	ND LINE ND PARSE ROUTI	L 5 NE 16-SEP-1984 0 5-SEP-1984 0	01:25	5:31 VAX/VMS Macro V04-00 2:35 EDTSDTR.SRCJDTSPARSE.MAR;1	Page	(3)
	05 5B	02	E5	0031	174	BBCC	#FLG_V_PARAMETER,R11,- PARSE_ERROR	- :	IT IS AN ERROR IF NO PARAMETER HAS BEEN PROCESSED		
	5B	02	04 88 04	0035 0036 0039 003A	174 175 176 177 1 178 179	OS: RET BISB2 RET	#FLG_M_MULTILINE,R11		EXIT TO DISMAIN SET CONTINUATION FLAG EXIT TO DISMAIN		
				003A 003A 003A	180 ; 181 ; 182 ; 183	AN ERROR HAS	BEEN ENCOUNTERED DURING	G COM	MMAND LINE PARSING.		
	5B	01	88 04	003A 003A 003A 003D	184 P 185 186	ARSE_ERROR: BISB2 RET	#FLG_M_PARSERROR,R11	1	CONTROL POINT SET PARSE ERROR FLAG EXIT TO DISMAIN		

RSB

MOVB

DATATEST:

EXIT

#DFT_K_BACK, W^TST\$GB_BACK

DEFAULTS FOR:

: BACK PRESSURE CONTROL

0000°CF

00409000 8F

0000°CF

05

90

00

- 1						
	TST\$DTSPARSE V04-000		- PAR	SE DTS COM ROUTINE	MAND LINE PARAMETER EVALUA	N 5 TION AND 5-SEP-1984 01:25:31 VAX/VMS Macro V04-00 Page TION AND 5-SEP-1984 00:22:35 [DTSDTR.SRC]DTSPARSE.MAR;1
	0000°CF 0000°CF 0000°CF 0000°CF 0000°CF	02 00 01 8F 01 1E 00	Č8	00A7 00A7 00AC 00B1 248 00BB 00C2 00C2 00CD 0	MOVB MOVB MOVB MOVL MOVB BISL2	#DFT K FLOW WATST\$GB FLOW
	0000°CF 0057067D	8F		00CD 265 00CD 265 00D5 266 00D6 267		VLD_M_TYPE W^TST\$GL_VALID RSB EXIT
	0000°CF	00 01	90	00D6 267 00D6 268 00DB 269 00E0 270 00E1 271 00E1 272 00E1 273	DISCTEST: MOVB MOVB BISL2	#DFT_K_RETURN_DI, W^TST\$GB_RETURN; RETURN QUALIFIER #DFT_K_TYPE_DI, W^TST\$GB_TYPE; TYPE QUALIFIER #VLD_M_NORETURN—; DENOTE VALID QUALIFIERS: !VLD_M_RETURN—; !VLD_M_TYPE,—;
	0000°CF 00409000	8F	05	00E1 272 00E1 273 00E9 274		RSB EXIT
		01 10 01 1E 00	90 C8	00E9 274 00EA 275 00EA 276 00EF 277 00F4 278 00F9 279 00FE 280 0103 281 0104 282 0104 283	INTETEST: MOVB MOVB MOVL MOVB BISL2	#DFT_K_RQUEUE IN, W^TST\$GB_RQUEUE; DTR_QUEUE COUNT #DFT_K_SIZE IN, W^TST\$GB_SQUEUE; DTS_QUEUE COUNT #DFT_K_SQUEUE IN, W^TST\$GB_SQUEUE; DTS_QUEUE COUNT #DFT_K_TIME_IN, W^TST\$GB_SECONDS: INTERRUPT TEST_DURATION #DFT_K_TYPE_IN, W^TST\$GB_TYPE : TYPE QUALIFIER #VLD_M_HOURS- !VLD_M_MINUTES- !VLD_M_RQUEUE- !VLD_M_SECONDS- !VLD_M_SIZE- !VLD_M_SQUEUE- !VLD_M_SQUEUE- !VLD_M_SQUEUE- !VLD_M_TYPE,- !VLD_M_TYPE,- !VLD_M_TYPE,-
	0000°CF 00570018		05 90 68 05	00F9 279 00FE 280 0103 281 0104 283 0104 283 0104 284 0104 286 0104 288 0104 288 0106 289 0100 291 0100 291 0112 293 0118 294	MISCTEST: MOVB BISL2 RSB	VLD M SIZE- VLD M SQUEUE- VLD M TYPE - W^TST\$GL_VALID RSB EXIT #DEFAULTS FOR: TYPE QUALIFIER WVLD M TYPE - DENOTE VALID QUALIFIERS: W*TST\$GL_VALID EXIT

03

				011C 011C 011C 011C 011C 011C	297 :+ 298 : QUALIFIER IS A 299 : A PARAMETER QU 300 : AND THE ASSOCI	PARSE ROUTINEQUALIFIER A SPECIAL PURPOSE SUBROUTI UALIFIER. THE QUALIFIER ST IATED QUALIFIER VALUE (IF	EVALUATION INE TO PARSE A COMMAND QUALIFIER OR IRING IS STORED IN TSTSGT_KEYWORD ANY) IS STORED IN TSTSGT_VALUE.
•	52	0000°CF 53 01CD	DE D4	011C 011C 011C 011C 012S 012A 012C 012C	305 306 307 MOVAL 308 CLRL 309 QUAL_LOOP: 310 BSBW	DST=W^TST\$GT_KEYWORD- SIZE=#12- CHAR=<#^A/ /> W^TST\$GT_KEYWORD,R2 R3	CONTROL POINT FILL KEYWORD AND QUALIFIER VALUE STRINGS WITH SPACES NOTE RO-R5 ARE DESTROYED! GET ADDRESS OF BUFFER ZERO CHARACTER COUNT
				012F 012F 012F 012F 012F 012F 012F	311 QUAL_REEXAMINE: 312 \$CASEB 313 314 315 316 317 318 >	SELECTOR=RO.DISPL=<- QUAL_DELIMITER- QUAL_DELIMITER- QUAL_VALUE- QUAL_DELIMITER- QUAL_CHAR-	CHARACTER: END-OF-LINE SLASH EQUAL_SIGN OR COLON SPACE OR TAB NONE OF THE ABOVE
!	52	0000°CF 53 01B5	DE D4 30	013D 013D 0142	319 QUAL_VALUE: 320 MOVAL CLRL 321 VALUE_LOOP: 323 BSBW SCASEB 326 327 328 329 330 VALUE_CHAR: CMPL BEQLU	WATSTSGT_VALUE,R2 R3 TST\$NEXTCHAR SELECTOR=R0,DISPL=<- QUAL_REEXAMINE- QUAL_REEXAMINE- VALUE_CHAR- QUAL_REEXAMINE- VALUE_CHAR-	DISCARD THE EQUAL SIGN OR COLON GET ADDRESS OF QUALIFIER VALUE ZERO CHARACTER COUNT GET NEXT CHARACTER CHARACTER: END-OF-LINE SLASH EQUAL SIGN OR COLON SPACE OR TAB NONE OF THE ABOVE
		08 53 82 51 53 E3	D1 13 90 D6 11	0155 0158 0158 015A 015D 015F 0161	331 VALUE_CHAR: CMPL BEQLU BEQLU MOVB INCL BRB	R3,#8 VALUE_LOOP R1,(R2)+ R3 VALUE_LOOP	STORE ONLY FIRST 8 CHARACTERS IGNORE THIS CHARACTER STORE CHARACTER INCREMENT CHARACTER COUNT CONTINUE
		04 53 66 82 51 53 BF	D1 13 90 D6 11	0161 0164 0166 0169 016B	337 QUAL_CHAR: CMPL BEQLU 340 MOVB INCL BRB 343 QUAL_DELIMITER:	R3,#4 QUAL_LOOP R1,(R2)+ R3 QUAL_LOOP	STORE ONLY FIRST 4 CHARACTERS IGNORE THIS CHARACTER STORE CHARACTER INCREMENT CHARACTER COUNT CONTINUE
	54 56 0000	0000 CF 0000 CF 01BA CF 55 FEB7 01	DE 30 E0 31 10 05	0161 0164 0166 0169 016D 016D 0172 0177 017A 0183 0185	344 MOVAL 345 MOVAL 346 BSBW 347 BBS 348 BRW	W^TSTSAZ_QUAL,R4 W^TSTSGT_KEYWORD,R6 TSTSMATCR R5,W^TSTSGL_VALID,10S PARSE_ERROR QUAL_DISPATCH	GET ADDRESS OF KEYWORD TABLE GET ADDRESS OF STRING TO MATCH FIND TABLE INDEX OF KEYWORD IS THIS A VALID QUALIFIER? NO, NOT IN THIS CONTEXT GO TO QUALIFIER SPECIFIC CODE EXIT

0000°CF

80 8F

0E10 8F

30

57

56

01BD 01C1 01C4 01C9 01CA R6, WATSTSGB_BACK 0000°CF CVTLB RSB 01CA 01CA 01CD 01DO 01D5 DISPLAY: DO 50 F6 05 #MAX_K_DISPLAY,R7 MOVL BSBW 0000°CF CVTLB R6,W^TST\$GB_DISPLAY RSB 01D6 01D6 01D8 01DB 01DE 01E6 01E6 FLOW: WATSTSAZ FLOW,R4 0000°CF MOVAL DE 30 D6 F6 05 56 BSBW INCL CVTLB R5, W^TST\$GB_FLOW 0000°CF RSB HOURS: 01E6

MOVZWL

#3600,-(SP)

UPDATE BACK PRESSURE CONTROL EXIT

PROCESS DISPLAY QUALIFIER
DEFINE MAXIMUM VALUE
CONVERT DIGITS TO BINARY VALUE
UPDATE DISPLAY VALUE EXIT

PROCESS FLOW QUALIFIER VALUE GET ADDRESS OF KEYWORD TABLE FIND TABLE INDEX OF KEYWORD

UPDATE FLOW CONTROL FIELD EXIT

PROCESS HOURS QUALIFIER VALUE : # SECONDS IN 1 HOUR

57 6	4 8F 008A	9A 31	01EB 4	09 10	MOVZBL BRW	# <max_k_time_da 3600="">,R7</max_k_time_da>	; DEFINE MAXIMUM HOUR VALUE ; BRANCH TO COMMON CODE
	3C 0 8F 007F	9A 3C 31	01F2 4 01F2 4 01F5 4 01FA 4	MINUTES:	MOVZBL MOVZWL BRW	#60,-(SP) # <max_k_time_da 60="">,R7 TIME</max_k_time_da>	PROCESS MINUTES QUALIFIER VALUE WESECONDS IN 1 MINUTE DEFINE MAXIMUM MINUTE VALUE BRANCH TO COMMON CODE
57 8 0000°CF	0 8F 014D 56	9A 30 F6	01FD 4 01FD 4 0201 4 0204 4 0209 4	16 17 NAK: 18 19 20 21	MOVZBL BSBW CVTLB RSB	#MAX_K_NAK_R7 TST\$CVTU_DTB R6,W^TST\$GB_NAK	; PROCESS NAK QUALIFIER ; DEFINE MAXIMUM VALUE ; CONVERT DIGITS TO BINARY VALUE ; UPDATE NAK CONTROL ; EXIT
			020A 4	ŽŽ NOBACK:			; PROCESS NOBACK QUALIFIER
000	0°CF	94 05	020A 4 020A 4	24 25 26	ASSUME CLRB RSB	WAL K BACK NO, EQ, 0	UPDATE BACK PRESSURE CONTROL VALUE
			020F 4	28 NODENAME	1		PROCESS NODENAME QUALIFIER VALUE A NODENAME OF 0-6 CHARACTERS
06	53 03 FE23 03	D1 18 31 88	020F 4 020F 4 0212 4 0214 4 0217 4	28 NODENAME 30 31 32 33 34 10\$: 35 36 37 38 39 40 41	CMPL BLEQU BRW PUSHR	R3,#6 10\$ PARSE_ERROR #^M <r0,r1></r0,r1>	: IS ALLOWED : IS STRING TOO LONG? : NO. USE ENTERED VALUE : YES : SAVE RO AND R1
0000°CF 0000°CF 000	53 1°CF 03	90 28 BA 05	0219 4 0219 4 021E 4 0223 4 0226 4	36 37 38 39	MOVB MOVC3	R3, W^TST\$GT_NODENAME R3, W^TST\$GT_VALUE, - W^TST\$GT_NODENAME+1 #^M <r0,rt></r0,rt>	NODENAME IS STORED AS A COUNTED ASCII STRING STORE LENGTH OF STRING STORE STRING NOTE RO - R5 ARE DESTROYED! RESTORE RO AND R1
		US	0229 4	43 NODISPLA	RSB V:		: EXIT : PROCESS NODISPLAY QUALIFIER
000	0°CF	94 05	0229 4 0229 4 0220 4	44 45 46	ASSUME CLRB RSB	WAL K DISP NO.EQ.O	UPDATE DISPLAY VALUE
000	0°CF	94 05	022E 4	47 48 NOFLOW: 50	ASSUME CLRB RSB	VAL_K_FLOW_NO.EQ.O W^TST\$GB_FCOW	: PROCESS NOFLOW QUALIFIER : UPDATE FLOW CONTROL VALUE
		05	0232 4	51 52 53 NONAK:	RSB		; EXIT ; PROCESS NONAK QUALIFIER
000	0°CF	94 05	0233 4 0233 4 0237 4	54 55 56	ASSUME CLRB RSB	WAL K NAK NO.EQ.O	UPDATE NAK CONTROL VALUE
000	0°CF	94 05	0238 4 0238 4 0230 4	57 58 NOPRINT: 59 60 61 62	ASSUME CLRB RSB	VAL K PRIN NO EQ.O	PROCESS NOPRINT QUALIFIER UDPATE PRINT VALUE EXIT
000	0°CF	94	0230 4 0230 4 0230 4	62 63 NORETURI 64 65	ASSUME CLRB	VAL K RETU NO.EQ.O	: PROCESS NORETURN QUALIFIER : UPDATE RETURN VALUE

age	11
	(6)

TSTS	TSPARSE
V04-	OTSPARSE

	- PARSE DI	TS COMMAND LINE	E 6	16-SEP-1984 (0 5-SEP-1984 (01:25:31	VAX/VMS Macro V04-00 [DTSDTR.SRC]DTSPARSE.MAR;1	Pag
	05 0241		RSB		; EXIT		
0000°CF	94 0242 05 0246	470 C		STAT_NO,EQ,0		ESS NOSTATISTICS QUALIFIER TE STATISTICS VALUE	
0000°CF 80 8F	90 0247 90 0247 05 0240	472 473 PRINT: 474 475 476	NOVB #VAL_K	PRIN_YES,W^TSTS	GB PRINT	SS PRINT QUALIFIER ; UPDATE PRINT VALUE	
54 0000°CF 00DE 55	DE 024E 30 0253 D6 0256 F6 0258 05 025D	479 R	NOVAL WATSTSA	Z RETURN,R4	; GET A	SS RETURN QUALIFIER VALUE ADDRESS OF KEYWORD TABLE TABLE INDEX OF KEYWORD	
0000'CF 55	F6 0258 05 0250	481 0	VTLB R5,W^TS	T\$GB_RETURN	UPDA1	TE RETURN USERDATA VALUE	
57 08 01 5A 03 57 08 00E5 000°CF 56	025E 025E 025E 91 0261 13 0264 00 0266 30 0269 F6 026C 05 0271	484 RQUEUE: 485 486 487 488 489 10\$: 8	CMPB R10,#V/ BEQLU 10\$ MOVL #MAX K BSBW TST\$CV1	RQUEUE_DA,R7 L_K_TEST_DATA RQUEUE_IN,R7 U_DTB ST\$GB_RQUEUE	DEFIN IS II BRANC NO. 0	ESS RQUEUE QUALIFIER VALUE NE MAXIMUM VALUE FOR DATA TES I A DATA TEST? CH IF YES DEFINE MAX VALUE FOR INT TEST ERT DIGITS TO BINARY VALUE TE FLOW CONTROL VALUE	
57 00057E40 8F 0000°CF 8E 56	0272 0272 00 0272 00 0275 0270 30 0270 C5 0276 05 0285	494 495 496 TIME: 497 498	SSBW TST\$CVT	TIME_DA,R7	DEFIN COMMO CONVE	ESS SECONDS QUALIFIER VALUE CONDS IN 1 SECOND NE MAXIMUM SECOND VALUE ON CODE ERT DIGITS TO BINARY VALUE CULATE NUMBER OF SECONDS	
57 1000 8F 01 5A 03 57 10 00BB 0000°CF 56	05 0285 0286 3C 0286 91 028B 13 028E 00 0290 30 0293 F7 0296 05 029B 029C	500 501 SIZE: 502 503 504 505 506 10\$: B	NOVZWL #MAX K CMPB R10,#V/ BEQLU 10\$ NOVL #MAX K BSBW TST\$CV1	SIZE_DA,R7 IL_K_TEST_DATA SIZE_IN,R7 IU_DTB ST\$GW_SIZE	: EXIT	ESS SIZE QUALIFIER VALUE NE MAXIMUM VALUE FOR DATA TES I A DATA TEST? CH IF YES DEFINE MAX VALUE FOR INT TEST ERT DIGITS TO BINARY VALUE TE MESSAGE SIZE	1
57 000F4240 8F 00AB 0000°CF 56	029C 029C 029C 30 02A3 00 02A6 05 02AB	509 510 SPEED: 511 512 513 514 515	MOVL #MAX K BSBW TST\$EVT MOVL R6,W^TS	SPEED,R7	PROCE DEFIN CONVE	ESS SPEED QUALIFIER VALUE NE MAXIMUM VALUE ERT DIGITS TO BINARY VALUE TE BAUD RATE	
57 08 01 5A 03 57 08 0097	DO 029C 30 02A3 DO 02A6 05 02AB 02AC DO 02AC 91 02AF 13 02B2 DO 02B4 30 02B7 F6 02BA	516 SQUEUE: 517 518 519	MPB R10,#V) BEQLU 10\$ NOVL #MAX_K	SQUEUE DA,R7	: DEFIN	SS SQUEUE QUALIFIER NE MAXIMUM VALUE FOR DATA TES TA DATA TEST? THE TEST OFFINE MAX VALUE FOR INT TEST OFFINE MAX VALUE FOR VALUE	
0000°CF 0097	30 02B7 F6 02BA	521 10\$: B	SSBW TSTSCV	TU DTB	; CONVE	ERT DIGITS TO BINARY VALUE	

	- PARSE DTS COMMAND LIP PARSE ROUTINEQUALIFIE	F 6 16-SEP-198 ER VALUE EVALUATIO 5-SEP-198	4 01:25:31 VAX/VMS Macro V04-00 4 00:22:35 EDTSDTR.SRCJDTSPARSE.MAR;1
	05 02BF 523	RSB	: EXIT
0000°CF 01	05 02BF 523 02C0 524 02C0 525 STATIS 90 02C0 526 05 02C5 527	TICS: MOVB #VAL_K_STAT_YES,W^T RSB	STSGB STAT : UPDATE STATISTICS VALUE
	02C6 528 02C6 529 TYPE: 02C6 530 02C6 531 02C6 532 02C6 533	\$CASEB SELECTOR=R10,DISPL=	CONNECT TEST DATA TEST DISCONNECT TEST
54 0000°CF	02C6 534 02C6 535 DE 02D2 536	HOVAL WATSTSAZ_TYPE_MI,R4	: INTERRUPT TEST : MISCELLANEOUS TEST BELOW : GET ADDRESS OF KEYWORD TABLE
54 0000°CF	DE 0209 538 108:	MOVAL WATSTSAZ_TYPE_CO.R4	; GET ADDRESS OF KEYWORD TABLE
54 0000°CF	DE 02E0 540 20\$:	BRB 50\$ MOVAL WATSTSAZ_TYPE_DA,R4 BRB 50\$	GET ADDRESS OF KEYWORD TABLE
54 0000°CF	DE 02D2 536 11 02D7 537 DE 02D9 538 10\$: 11 02DE 539 DE 02E0 540 20\$: 11 02E5 541 DE 02E7 542 30\$:	MOVAL WATSTSAZ_TYPE_DI,R4	GET ADDRESS OF KEYWORD TABLE
54 0000 CF 003E 0000 CF 55	DE 02D2 536 11 02D7 537 DE 02D9 538 10\$: 11 02DE 539 DE 02E0 540 20\$: 11 02E5 541 DE 02E7 542 30\$: 11 02EC 543 DE 02EE 544 40\$: 30 02F3 545 50\$: F6 02F6 546	BRB 50\$ MOVAL W^TST\$AZ TYPE_IN,R4 BSBW TST\$MATCH CVTLB R5,W^TST\$GB_TYPE RSB	## BRANCH TO COMMON CODE ## GET ADDRESS OF KEYWORD TABLE ## FIND TABLE INDEX OF KEYWORD ## UPDATE MESSAGE TYPE ## EXIT

Page 12 (6)

59

51

```
- PARSE DTS COMMAND LINE
TST$NEXTCHAR - EXAMINE NEXT CHARACTER
                                                                                                                          VAX/VMS Macro V04-00
EDTSDTR.SRCJDTSPARSE.MAR; 1
                                                             TST$NEXTCHAR - EXAMINE NEXT CHARACTER TST$CODE NOWRT
 000002FC
                                  FUNCTIONAL DESCRIPTION:
                                              TST$NEXTCHAR ATTEMPTS TO EXAMINE THE NEXT CHARACTER IN THE BUFFER. IF THE END OF THE BUFFER HAS BEEN REACHED, TST$NEXTCHAR SIGNALS END OF LINE CONDITION; OTHERWISE THE NEXT CHARACTER FOUND IS RETURNED ALONG WITH A VALUE INDICATING WHAT TYPE OF CHARACTER IT IS.
                                   CALLING SEQUENCE:
                                               BSB/JSB TST$NEXTCHAR
                                   INPUT PARAMETERS:
                                                              THE ADDRESS OF THE NEXT CHARACTER IN THE BUFFER THE ADDRESS OF THE END OF THE BUFFER + 1
                                   IMPLICIT INPUTS:
                                               NONE
                                   OUTPUT PARAMETERS:
                                               RO
                                                              RESULT WHERE:
                                                             O = END OF LINE OR CHARACTER IS AN EXCLAMATION OR DASH
1 = CHARACTER IS A SLASH
2 = CHARACTER IS AN EQUAL_SIGN OR COLON
3 = CHARACTER IS A SPACE OR TAB
4 = CHARACTER IS NONE OF THE ABOVE
THE CHARACTER EXAMINED (O OR "NULL" IF END OF LINE)
UPDATED NEXT CHARACTER POINTER
                                   IMPLICIT OUTPUTS:
                                               NONE
                                   COMPLETION CODES:
                                               NONE
                                   SIDE EFFECTS:
                       5945
5955
5967
5989
6001
6003
6005
                                               NONE
                               TST$NEXTCHAR::
                                                                                                                CONTROL POINT
                                                                                                                INITIALIZE RETURN VALUE SET R1 TO "NULL"
 04
                                               CLRL
                                                              R1
                                               CLRL
                                               RO = 0
 13
9A
                                               CMPL
                                                                                                                END OF COMMAND LINE?
                                                              10$
                                               BEQLU
                                                              (R8) + R1
                                                                                                             GET NEXT CHARACTER
```

6

			SE DTS	COMMAND LIN	E NEXT CHAR	H 6 ACTER	16-SEP-1984 5-SEP-1984	01:25 00:22	:31	VAX/VMS EDTSDTR	Macro V04-00 SRCJDTSPARSE.MAR;	Page	14 (7)
21	51	91	0308	606	CMPB BEQLU	R1,#^A\!\		:	15 11	AN EXC	AMATION POINT?		
20	51 21	91	030b 0310	608 609 610 : ****	BEQLU	10\$ R1,#^A\-\ 10\$			IS II	A DASH	REST OF LINE REST OF LINE		
2F	50 51 1A	06 91 13	0312 0314 0317	611 612 613 614 : *****	INCL CMPB BEQLU	RO R1 #^A\/\ 10\$		-	INCRE IS IT YES	MENT RET	TURN VALUE		
30	50	D6	0319 031B	615		RO R1,#^A\=\		:	IS II	MENT RET	TURN VALUE ALS_SIGN?		
3A	51 0E	91 13 91 13	031E 0320 0323	618 619	BEQLU	10\$ R1 #^A\:\ 10\$:	YES IS IT YES	A COLOR	N?		
20	50 51 07	96 91 13	0325 0327	622 622	INCL CMPB	RO R1, #^A\ \		:	INCRE IS IT YES	MENT RE	TURN VALUE		
09	51 02	91 13	032C 032F	624 625		10\$ R1,#^x09 10\$:	YES IS II	A TAB?			
	50	D6 05	0331 0331 0333	626 ; ***** 627 628 10\$:	11.0	RO		;	IY'S EXIT	NONE OF	THE ABOVE		

ADDL2 CMPB BGTRU MOVZBL ADD STRING LENGTH TO POINTER
IS STRING TOO LONG?
YES
SET-UP DIGIT PLACE VALUE

	i	PARSE ST\$CVI	DTS (COMMAND L	INE T UNSIGNED	K 6 DECIMAL	16-SEP-1984 5-SEP-1984	01:25:31 00:22:35	VAX/VMS Macro V04-00 [DTSDTR.SRC]DTSPARSE.MAR;1	Page	17
55 09 55 56 54 E9	6205245A361	C4 01 F5 01 1A 01 05 01	74 77 7A 7D 7F	745 746 747 748 749 750 751 752 753 754 755 756 757 20\$:	CLRL MOVZBL SUBB2 CMPB BGTRU MULL2 ADDL2 MULL2 SOBGTR CMPL BGTRU RSB BRW • END	R6 -(R2),R5 #^X30,R5 R5,#9 20\$ R4,R5 R6,#10,R4 R3,10\$ R6,R7 20\$	ROR	GET CON IS YES MUL ADD MUL ANO IS YES	O RETURN VALUE NEXT ASCII CHARACTER VERT ASCII DIGIT TO BINARY IT NON-NUMERIC? TIPLY DIGIT BY ITS PLACE VALUE THIS TO THE TOTAL TIPLY PLACE VALUE BY 10 THER DIGIT TO CONVERT? CONVERTED VALUE TOO LARGE? EXIT NCH TO ERROR ROUTINE		

TST\$DTSPARSE Symbol table	- PARSE	DTS COMMAND LINE	L 6	16-SEP-1984 01:25:31 VAX/VMS Macro V04-00 Page 18 5-SEP-1984 00:22:35 [DTSDTR.SRC]DTSPARSE.MAR;1 (9)
\$\$COUNT	022000000000000000000000000000000000000	PARAMETER PARAM-CHAR PARAM-DELIMITER PARAM-LOOP PARSE-ERROR PRINT QUAL QUALIFIER QUAL-CHAR QUAL-DELIMITER QUAL-LOOP QUAL-LOOP QUAL-REEXAMINE RETURN TST\$AZ-TYPE-DA TST\$GB-RETURN TS	00000000 RG 00000003E R 00000005F R 00000004E R 000000018 R 00000011C R 0000016D R 0000015C R 00000015E R 00000018 R 000000018 R 000000018 R 000000018 R 000000018 R 0000000018 R 000000000000000000000000000000000000	02 TYPE 000002C6 R 02 02 VALUE_LOP 0000015 R 02 02 VALUE_LOP 00000144 R 02 02 VAL K_BACK NO = 00000000 02 VAL K_BACK NO = 00000000 03 VAL K_FLOW_MESS 00000002 04 VAL K_PLOW_MESS 00000000 05 VAL K_PRIN_MESS 00000000 06 VAL K_PRIN_MESS 00000000 07 VAL K_PRIN_MESS 00000000 08 VAL K_PRIN_MESS 00000000 09 VAL K_PRIN_MESS 00000000 00 VAL K_PRIN_MESS 00000000 00 VAL K_PRIN_MESS 00000000 01 VAL K_PRIN_MESS 00000000 02 VAL K_STAT NO = 00000000 03 VAL K_TYPE NO 00000000 04 VAL K_TYPE ADRT 00000001 05 VAL K_TYPE ADRT 00000001 06 VAL K_TYPE ADRT 00000000 07 VAL K_TYPE SINK 00000000 08 VAL K_TYPE SINK 000000000 09 VAL K_TYPE SINK 000000000 00 VAL K_TYPE SINK 000000000 00 VAL K_TYPE SINK 000000000 00 VAL K_TYPE SINK 000000000 00 VAL M_MOBACK 000000000 00 VAL M_MOBACK 000000000 00 VAL M_MOBACK 00000000 00 VAL M_MOBACK 00000000 00 VAL M_MOBACK 000000000 00 VAL M_MOBACK 000000000 00 VAL M_MOBACK 0000000000 00 VAL M_MOBACK 000000000000000000000000000000000000

Macro Library name

\$255\$DUA28:[DTSDTR.OBJ]DTSDTR.MLR;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Macros defined

6

12

223 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DTSPARSE/OBJ=OBJ\$:DTSPARSE MSRC\$:DTPREFIX/UPDATE=(ENH\$:DTPREFIX)+MSRC\$:DTSPARSE/UPDATE=(ENH\$:DTSPARSE)

0123 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

